

## Research Article

### On the vernal Lepidoptera fauna of Nizip-Birecik districts – Euphrates region in South Turkey

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**Abstract:** On the vernal Lepidoptera fauna of Nizip-Birecik districts – Euphrates region in South Turkey. *Cesa News* 137: 1-20, 51 figs.

Totally 95 taxa of 11 families are evaluated faunistically. Among them, 53 species are new to Gaziantep Province, while 2 species new to Urfa. One tortricid species is reported here as new to the fauna of Turkey. Male and female genitalia, abdominal skin and tympanal organ of some species are prepared and illustrated. Some taxonomical and morphological comments are given to certain taxa.

**Keywords:** Lepidoptera, Gaziantep, Urfa, fauna, Turkey.

The Euphrates river begins at the place, where the Karasu and Murat join in northeastern Turkey, and it continues to flow in Syria. The southernmost region of the Euphrates in Turkey is in the territories of Nizip (Gaziantep Prov.) and Birecik (Urfa Prov.). Recently, the authors published a list on the vernal Lepidoptera of Urfa Province (Birecik district) based upon a short trip (Kemal & Koçak, 2017a). Second short excursion with the same aim has been realized by the authors in the second half of April 2017, especially to Nizip, also to Birecik. The studied localities are given below briefly (**Figs. 1-3**):

Nizip (27D): Turlu 1km SE 560m (27Da), on 21-23 4 2017, small steppe patches between *Pistacia* plantations;  
Kızılcakent 2km E 575m (27Db), on 22-23 4 2017, small steppe patches between *Pistacia* plantations;

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Keklik 1.5km SW 615m (27Dc), on 23-24 4 2017, openings of a mixed deciduous woodland (*Quercus*, *Acer*, etc.);

Samandöken 430m (27Dd), on 24-25 4 2017, [1] small steppe patches, and [2] *Populus-Salix* community;

Birecik (63B): Mezra 3km NE 390-420m (63Ba), on 24 4 2017, small steppe patches between *Pistacia* plantations.

For further information, *vide*: Koçak & Kemal, 2017.

During this short excursion, nearly 490 specimens were collected and partially evaluated here. In the following list, 95 species recorded from Nizip and Birecik are listed. In the material studied, number of the specimens collected are given together with the locality code, where collected. The species new to the provincial fauna are marked with “\*” for Gaziantep, with “#” for Urfa. Among the taxa identified at specific level, 53 species of 11 families (*Deoclonidae*, *Gelechiidae*, *Geometridae*, *Lymantriidae*, *Noctuidae*, *Oecophoridae*, *Pyrilidae*, *Scythridae*, *Tineidae*, *Tortricidae*, *Yponomeutidae*) are new to Gaziantep, 2 species of 2 families (*Deoclonidae*, *Noctuidae*) new to Urfa fauna. One species, *Phtheochroa dodrantaria* (Razowski) is reported here as new to the fauna of Turkey.

The third excursion to this region is planned in this season.

All the collected material are identified by the authors. The material, genitalic preparats, and the digital images are preserved in the Coll. Cesa-33 and in its archive (Kemal & Koçak, 2017a).

## List of the species

### Butterflies

#### *Argynniidae*

1. ***Melitaea (Cinclidia) collina* Lederer, 1861**

Material studied: 1♂ 27Da, 3♂ 27Db.

2. ***Melitaea (Cinclidia) ornata* Christoph, 1893**

Material studied: 1♂ 27Db.

3. ***Melitaea (Didymaeformis) persea* Kollar, [1849]**

Material studied: 6♂ 27Db, 1♂ 27Dd.

#### *Hesperiidae*

4. ***Carcharodus (Reverdinus) orientalis* Reverdin, 1913**

Material studied: 1♂ 27Db.

5. ***Carcharodus (s.str.) alceae* (Esper, [1780])**

Material studied: 2♂ 27Dd.

6. ***Spialia (Neospialia) orbifer* (Hübner, [1823])**

Material studied: 5♂ 27Db.

#### *Lycaenidae*

7. ***Chilades (Freyeria) trochylus* (Freyer, [1843]) (Fig. 4)**

Material studied: 1♂ 27Db, 1♀ 27Dd, 1♀ 63Ba.

8. ***Glaucopsyche (s.str.) alexis* (Poda,1761)** (Fig. 5)  
Material studied: 2♂♀ 27Db, 1♂ 27Dd.
9. ***Polyommatus (Aricia (s.str.)) agestis* ([Denis & Schiffermüller],1775)**  
Material studied: 1♂ 27Db.
10. ***Polyommatus (s.str.) icarus* (Rottemburg,1775)**  
Material studied: 2♂ 27Db, 1♂ 27Dd.
11. ***Tomares (nogelii) nesimachus* (Oberthür,1893)** (Figs. 6, 7)  
Material studied: 4♂♀ 27Db.

### ***Pieridae***

12. ***Colias (Eriocolias) crocea* (Fourcroy,1785)**  
Material studied: 1♂ 27Db.
13. ***Euchloe (s.str.) ausonia* (Hübner,[1804])**  
Material studied: 1♀ 27Dc.
14. ***Pieris (Artogeia) ergane* (Geyer,[1828])**  
Material studied: 2♂ 63Ba.
15. ***Pieris (Artogeia) rapae* (Linnaeus,1758)**  
Material studied: 2♂ 27Dd.
16. ***Pontia edusa* (Fabricius,1777)**  
Material studied: 2♂ 27Db, 1♂ 27Dd.

### **Moths**

#### ***Arctiidae***

17. ***Arctia (Eucharia) festiva* (Hufnagel,1766)**  
Material studied: 1♂ 27Db
18. ***Utetheisa pulchella* (Linnaeus,1758)**  
Material studied: 1♂ 63Ba

#### ***Coleophoridae***

Totally 16 specimens of 4 species were collected from 27Da, 27Db, 27Dc, and 27Dd. They will be separately evaluated.

#### ***Deoclonidae***

19. ***Syringopais temperatella* (Lederer,1855) \*,#** (Fig. 8)  
Material studied: 2♂ 27Db, 12♂ 1♀ 27Dc, 1♂ 27Dd, 1♂ 63Ba.

#### ***Elachistidae***

Four specimens were collected by light trap. They will be studied later.

**Gelechiidae****20. *Agnippe lunaki* (Rebel, 1941)\***

Material studied: 1♂ 27Da (Bidzilya &amp; Li, 2010).

**21. *Deltophora maculata* (Staudinger, 1879)\***

Material studied: 1♂ 27Da, 9♂♀ 27Db, 1♂ 27Dd.

**22. *Isophrictis* sp.**

Material studied: 2♂ 27Da.

For the specific identity the genitalic preparation is necessary.

**23. *Metzneria aprilella* (Herrich-Schäffer, [1854])\* (Figs. 26, 27)**

Material studied: 3♂ 27Da, 1♂ 27Db; GP2660♂.

**24. *Metzneria* sp.**

Material studied: 1♂ 27Da, 1♂ 27Dc.

**25. *Syncopacma polychromella* (Rebel, 1902)\***

Material studied: 1♂ 27Da.

**Geometridae****26. *Catarhoe hortulanaria* (Staudinger, 1879)\* (Figs. 28, 29)**

Material studied: 6♂ 27Da; GP2670♂.

**27. *Coenotephria ablutaria* (Boisduval, 1840)\***

Material studied: 1♂ 27Da, 1♂ 27Db, 1♂ 27Dd

**28. *Dyscia innocentaria* (Christoph, 1885)\* (Fig. 30)**

Material studied: 3♂ 27Da, 2♂ 27Db (GP2679♂).

Note: This species was also reported from Hazro (Diyarbakır Prov.), and Süphan Volcano (Bitlis Prov.) by the authors (Kemal & Koçak, 2015, 2017b). It is represented in Central and East Turkey by the subspecies *osmanica* Wagner, described from Akşehir (Konya Province).

**29. *Glossotrophia sacraria* (A. Bang-Haas, 1910)\* (Figs. 10, 31-33)**

Material studied: 12♂♀ 27Da, 13♂♀ 27Db (GP2683♂), 3♂ 27Dd.

Note: This species was also reported from Hazro (Diyarbakır Prov.) by the authors (Kemal & Koçak, 2015).

**30. *Gnopharmia rubraria* Staudinger, 1892 (Fig. 9)**

Material studied: 14♂♀ 27Da, 17♂♀ 27Db, 1♂ 27Dd.

Common in the area.

**31. *Idaea allongata* (Staudinger, 1898)\***

Material studied: 2♂ 27Da, 17♂♀ 27Db, 8♂ 27Dd.

Note: This species was recently reported by the authors from Birecik (Urfa Prov.) (Kemal & Koçak, 2017a). Common in the area.

**32. *Idaea degeneraria* (Hübner, [1799])\***

Material studied: 1♂ 27Da.

**33. *Idaea distinctaria* (Boisduval, 1840)\***

Material studied: 1♂ 27Db.

**34. *Idaea* sp.**

Material studied: 1♂ 27Dd.

Note: Externally looks like to *albitorquata*, because of lacking of marginal dark points on the wings.**35. *Lithostege palaestinensis* Amsel, 1935\***

Material studied: 1♂ 27Db, 2♂ 63Ba.

**36. *Neognopharmia stevenaria* (Boisduval, 1840)\***

Material studied: 1♂ 27Db.

Remarks: Some authors considered *cataleucaria* Stgr., described from Mardin, as a bona species. However, there is no publication on this matter. Therefore, we consider, for the time being, the *Neognopharmia* species from the territory of SE Turkey as *stevenaria* Bsd as in the past.**37. *Nychiodes (Fritzwagneria)* sp.**

Material studied: 1♂ 27Db.

Comparable with *palaestinensis* F. Wagner, 1919.**38. *Problepsis ocellata* (Frivaldsky, 1845)\***

Material studied: 1♂ 27Db.

**39. *Protorhoe unicata* (Guenée, [1858])\***

Material studied: 1♂ 27Db.

**40. *Rhodostrophia discopunctata* Amsel, 1935\***

Material studied: 1♂ 27Da, 3♂ 27Db

**41. *Scopula decorata* ([Denis & Schiffermüller], 1775)\* (Fig. 11)**

Material studied: 1♂ 27Da, 4♂ 27Dd.

**42. *Scopula submutata* (Treitschke, 1828)\***

Material studied: 1♂ 27Da, 3♂ 27Db, 1♂ 27Dd.

***Gracillariidae*****43. *Phyllonorycter* sp. (Fig. 12)**

Material studied: 6 ex 27Dc.

Note: Before genitalic preparation, making an assumption about its species is not scientific.***Lymantriidae*****44. *Polymona lapidicola* (Herrich-Schäffer, [1852])\***

Material studied: 1♂ 27Da.

***Micropterigidae*****45. *Micropterix* sp.**

Material studied: 1 ex. 27Db

**Noctuidae**

46. ***Agrotis (Putagrotis) puta* (Hübner,[1803])\***  
Material studied: 1♂ 27Da, 1♂ 1♀ 27Db.
47. ***Agrotis (s.str.) segetum* ([Denis & Schiffermüller],1775)**  
Material studied: 2♂ 27Db 3♂ 27Dd.
48. ***Amephana dalmatica* (Rebel,1919)\*** (Fig. 13)  
Material studied: 14♂♀ 27Da, 15♂♀ 27Db, 4♂ 27Dd  
Common in the area.
49. ***Apamea (s.str.) monoglypha* (Hufnagel,1766)**  
Material studied: 1♂ 27Dc, 2♂ 27Dd
50. ***Calophasia platyptera* (Esper,[1788])\***  
Material studied: 1♂ 27Db (eaten by *Blepharopsis mendica* [Mantodea]).
51. ***Caradrina (Paradrina) flavirena* (Guenée,1852)\*** (Fig. 34)  
Material studied: 8♂♀ 27Da, 7♂♀ 27Db, 1♂ 27Dc, 3♂ 27Dd (GP2681♂).
52. ***Caradrina* sp.** (Fig. 35)  
Material studied: 2♂ 27Db (GP2678♂), 1♂ 27Dc.  
Note: Distinguished from the previous species by the reduced second terminal lobe of clasper, shorter cornutus in the male genitalia.
53. ***Cleonymia (Serryvania) opposita* (Lederer,1870)\***  
Material studied: 4♂ 27Da.
54. ***Dysgonia algira* (Linnaeus,1767)\***  
Material studied: 2♂ 27Da, 1♂ 27Db.
55. ***Eublemma (ostrina-gr.) ostrinum* (Hübner,[1808])\*** (Fig. 16)  
Material studied: 1♂ 27Da, 3♂ 27Db.
56. ***Eutelia adulatrix* (Hübner,[1813])\*** (Figs. 14, 15)  
Material studied: 1♂ 27Dc
57. ***Euchalcia augusta* (Staudinger,1892)** (Fig. 17)  
Material studied: 21♂♀ 27Da, 12♂♀ 27Db, 1♂ 27Dd.  
Locally common species, nocturnal.
58. ***Heliothis peltigera* ([Denis & Schiffermüller],1775)**  
Material studied: 1♂ 27Db.
59. ***Metalopha liturata* (Christoph,1887)**  
Material studied: 1♂ 27Db.
60. ***Mythimna (Aletia) alopecuri* (Boisduval,1840)\*** (Figs. 36-38)  
Material studied: 1♂ 27Dd (GP2675♂).
61. ***Rhypagla lacernaria* (Hübner,[1813])\***  
Material studied: 2♂ 27Dd.
62. ***Simyra dentinosa* Freyer,1839#**  
Observation of the caterpillar on *Euphorbia*: 63Ba.

63. ***Zekelita (Ravalita) ravalis* (Herrich-Schäffer,[1852])\*** (Fig. 18)  
Material studied: 8♂ 27Da (GP2662♂), 1♂ 27Db.

64. ***Zethes brandti* Janzon,1977\*** (Fig. 19)  
Material studied: 3♂♀ 27Da, 6♂♀ 27Db, 1♂ 27Dd.

65. ***Zethes narghisa* Brandt,1938\***  
Material studied: 1♂ 27Da, 1♂ 27Db.

### ***Oecophoridae***

66. ***Pleurota (s.str.) pyropella* ([Denis & Schiffermüller],1775)\*** (Figs. 20, 39, 40)  
Material studied: 14♂♀ 27Da (GP2661♂), 4♂ 27Db, 3♂ 27Dc, 1♂ 27Dd.

### ***Pterophoridae***

The material collected will be later studied.

67. ***Capperia* sp.** (Figs. 41, 42)  
Material studied: 1♀ 27Da (GP2659♀).

### ***Pyralidae***

68. ***Ancylosis rhodochrella* (Herrich-Schäffer,1855)\*** (Fig. 21)  
Material studied: 4♂ 27Da, 2♂ 27Db.

69. ***Cornifrons ulceratalis* Lederer,1858\***  
Material studied: 5♂ 27Db.

70. ***Cynaeda gigantea* (Staudinger,1879)\***  
Material studied: 2♂ 27Da, 3♂ 27Db.

Note: The first nomenclaturally available name for this species was proposed by Staudinger in 1879. Previous name *gigantea* given by Wocke in 1871 is simply a nomen nudum, therefore cannot be used validly.

71. ***Denticera divisella* (Duponchel,1842)\***  
Material studied: 1♂ 27Db.

72. ***Epischnia prodromella* (Hübner,[1799])\***  
Material studied: 2♂ 27Da.

73. ***Isauria dilucidella* (Duponchel,1836)\***  
Material studied: 1♂ 27Da.

74. ***Nomophila noctuella* ([Denis & Schiffermüller],1775)**  
Material studied: 1♂ 63Ba.

75. ***Pempelia palumbella* ([Denis & Schiffermüller],1775)\***  
Material studied: 2♂ 27Db.

76. ***Pterothrixidia rufella* (Duponchel,1836)\***  
Material studied: 2♂ 27Dd.



**77. *Pyrausta ferrealis* (Hampson, 1900)\***

Material studied: 1♂ 27Da, 1♂ 27Db.

Note: The species, described from Mardin, is not uncommon in the south-eastern provinces.**78. *Pyrausta* sp.**

Material studied: 5♂ 27Da, 2♂ 27Db.

Note: This species looks like to *sanguinalis* to some degree, but all the specimens much paler. For the precise identification the genitalic preparation is needed.**79. *Susia* spp. (Figs. 43-46)**

Remarks: The specimens collected from Nizip are identified by the authors as a species of the genus *Susia* Ragonot, 1888 (type-species: *Susia discomaculella* Rag., by monotypy). This genus was examined by Roesler (1993) in his monographic work. He considered two valid species in the genus, i.e., *uberalis* (Sw.), and *designella* (Ams.). Roesler divided *uberalis* into three subspecies; nominate subspecies from southern Pakistan and Bahrain, *desertella* Car. From North Africa, and *discomaculella* Rag. from Middle East to Afghanistan and northern Pakistan. However, Roesler submitted no evidence about his subspecific consideration. Therefore, his action looks like arbitrarily. Moreover, he selected a neotype (♀) of *discomaculella* Ragonot from Jerusalem, but, in his work, Roesler preferred to illustrate a female from Afghanistan, instead of newly selected neotype, as a representative of *discomaculella* Rag.

According to Roesler (1993: 156) *designella* Ams. and *uberalis* can be distinguished by the following features:

Characters	<i>uberalis</i>	<i>designella</i>
3. labial palpus	1/3	2/3
Forewing colouration	more yellowish	creamy-white
♂ genitalia, rate of gnathos length to uncus	2/3	1/2
transtilla	pair and chitinized	membraneous
cornuti of aedeagus	3 cornuti groups	3 single cornuti

According to the specific and subspecific diagnostic characters given by Roesler (1993), it is hard to decide on the identity of the specimens from Nizip, because of the lacking of some important and necessary documents (as text or illustration), as well as the inappropriate genitalic drawings in that publication. Under these circumstances, we confirm the specific distinctness of *uberalis* and *designella*. The specimens from Nizip looks like to *uberalis* externally. However, the ground colour is greyish, instead of yellowish. Moreover, the rate of gnathos/uncus is different. There are also some noteworthy discrepancies in the valval structures. Presuming Nizip specimens as *uberalis* exactly, is to ignore the important differences mentioned above.

Material studied: *Susia* sp1. 1♂ (GP2664), *Susia* sp2. 2♂ (GP2668).**80. *Synaphe bombycalis* ([Denis & Schiffermüller], 1775)\***

Material studied: 1♀ 27Db.

**81. *Trepteryx pertusalis* (Geyer, [1832])\***

Material studied: 1♂ 27Dc.

***Scythridae*****82. *Scythris apicalis* (Zeller, 1847)\* (Fig. 22)**

Material studied: 3♂ 27Db.

Note: This species was reported by the authors from Hazro (Diyarbakır Prov.), with the adult and the genitalic illustrations (Kemal & Koçak, 2015).**83. *Scythris* sp.1**

Material studied: 3♂ 27Db.



**84. *Scythris* sp.2**

Material studied: 1♂ 1♀ 27Db.

Note: This is an unknown species to us. It is easily distinguishable by light yellow hindwing, and two distinct yellow apical spots on the upperside of the forewing. A small species, nocturnal. Ultimate decision on its identity will be given later.

***Tineidae*****85. *Rhodobates pallipalpellus* Rebel, 1901\* (Figs. 47-49)**

Material studied: 4♂ 27Db (GP2669).

**86. *Rhodobates laevigatellus* (Herrich-Schäffer, [1854])\* (Figs. 23)**

Material studied: 1♂ 27Da, 1♂ 27Db, 5♂ 27Dd.

Note: Further nocturnal species of this family will be later evaluated.

***Tortricidae*****87. *Ancylis* sp.**

Material studied: 1♀ 27Dd.

**88. *Cnephasia orientana* (Alpheraky, 1877)\***

Material studied: 10♂ 27Dd.

**89. *Cnephasia* sp.**

Material studied: 2♂♀ 27Db

**90. *Cochylimorpha diana* (Kennel, 1899)\* (Figs. 24, 50)**

Material studied: 3♂ 27Da (GP2684♂).

**91. *Cydia* sp.**

Material studied: 1♂ 27Da (GP2663♂).

Note: The male genitalia of this species looks like to *transcaucasica* to some degree, but differs from it especially by external characters. The ultimate decision will be given later.

**92. *Lobesia* (s.str.) *porrectana* (Zeller, 1847)\***

Material studied: 2♂ 27Dd (GP2674♂).

**93. *Phtheochroa dodrantaria* (Razowski, 1970)\* (Fig. 51)**

Material studied: 1♂ 27Da, 1♂ 27Db (GP2673♂).

Note: This species was previously known only from its type locality (Beirut, Lebanon) (Razowski, 2009). The present record is new to the fauna of Turkey.

***Yponomeutidae*****94. *Plutella xylostella* (Linnaeus, 1758)\***

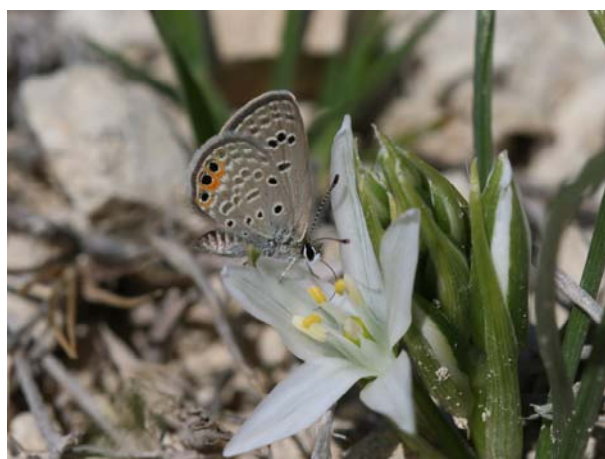
Material studied: 1♂ 27Da, 1♂ 27Db, 1♂ 27Dc.

***Zygaenidae*****95. *Zygaena* (s.str.) *graslini* Lederer, 1855 (Fig. 25)**

Material studied: 10♂ 27Db, 1♂ 27Dd, 1♂ 63Ba.



**Figs. 1-3** - Some collecting localities in Nizip district (Gaziantep Province). Turlu 560m (left, and top right). KızılcaKent 575m (bottom right) on 22 4 2017, M. Kemal (Cesa)



**Figs. 4, 5** - *Chilades trochilus*. A female, feeding on the flower of a species of *Ornithogalum* (Asparagaceae). Urfa Prov., Birecik, 3km NE Mezra 390m, on 25 3 2017 (left). *Glaucopsyche alexis*, a feeding male on the flower, Gaziantep Prov. Nizip, KızılcaKent on 22 4 2017 (right). M. Kemal (Cesa)





**Figs. 6, 7** – *Tomares nesimachus*, two positions during feeding and resting. Nizip, Kızılcakent, 23 4 2017, M. Kemal (Cesa)



**Figs. 8, 9** - *Syringopais temperatella* at rest (left). *Gnopharmia rubraria* at rest (right). Both from Nizip, Kızılcakent, 23 4 2017, M. Kemal (Cesa)



**Figs. 10, 11** – *Glossotrophia sacraria* at rest, Nizip, Turlu 22 4 2017 (left). *Scopula decorata* at rest, Nizip, Samandöken 25 4 2017, M. Kemal (Cesa)



**Figs. 12, 13** – *Phyllonorycter* sp. at rest from Nizip, Keklik 24 4 2017 (left). *Amephana dalmatica* at rest early in the morning, Turlu 560m 22 4 2017, M. Kemal (Cesa)



**Figs. 14, 15** -*Eutelia adulatrix* at rest from dorsal and ventral sides, Nizip, Keklik 24 4 2017, M. Kemal (Cesa)



**Figs. 16, 17** – *Eublemma ostrinum* at rest (left). *Euchalcia augusta* at rest (right). Both from Nizip, Turlu 23 4 2017, M. Kemal (Cesa)





**Figs. 18, 19** – *Zekelita ravalis* at rest (left). *Zethes brandti* at rest (right). Both from Nizip, Turlu 22 4 2017, M. Kemal (Cesa)



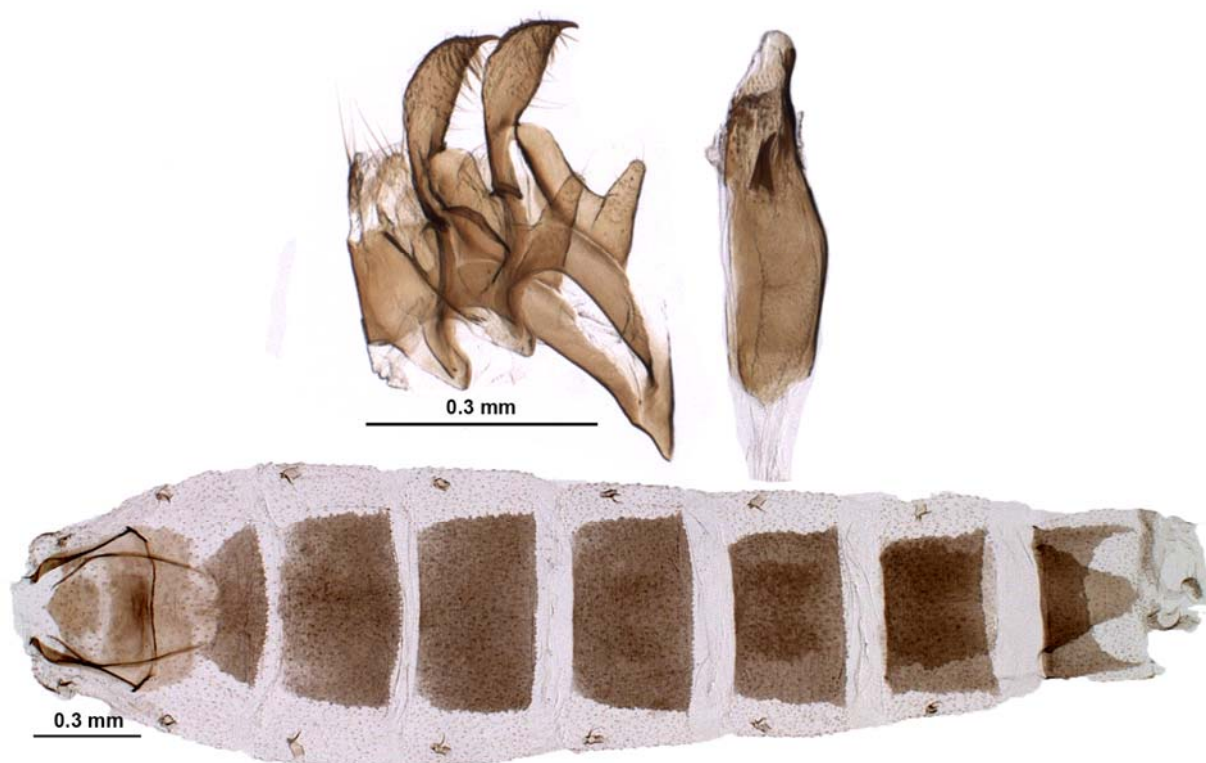
**Figs. 20, 21** – *Pleurota pyropella* at rest (left). *Ancylosis rhodochrella* at rest (right). Both from Nizip, Turlu 560m, 22 4 2017, M. Kemal (Cesa)



**Figs. 22, 23** – *Scythris apicalis* at rest (left), *Rhodobates laevigatellus* at rest. Both diurnal and from Nizip, Kızılcağent and Keklik respectively, M. Kemal (Cesa)



**Figs. 24, 25** – *Cochylimorpha diana* at rest (left). *Zygaena graslini* at rest (right). Both from Nizip, Turlu and Kizilcakent, respectively, M. Kemal (Cesa)

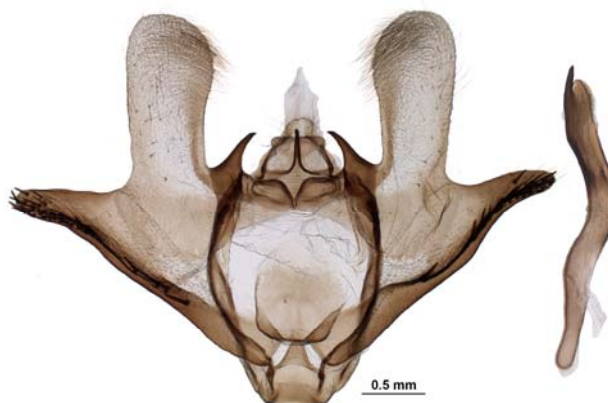


**Figs. 26, 27** – *Metzneria aprilella*. Male genitalia and abdominal skin, GP2660. Nizip, Turlu (27Da), M. Kemal (Cesa)





**Figs. 28, 29** - *Catarhoe hortulanaria*. Upperside of male and genitalia, GP2670. Nizip Turlu 1km SE 560m (27Da), 22 4 2017, M. Kemal (Cesa)



**Fig. 30** – *Dyscia innocentaria*. Male genitalia (GP2679). Nizip, Kızılcağent 2km E. (27Db) 573m, 23 4 2017, M. Kemal (Cesa)

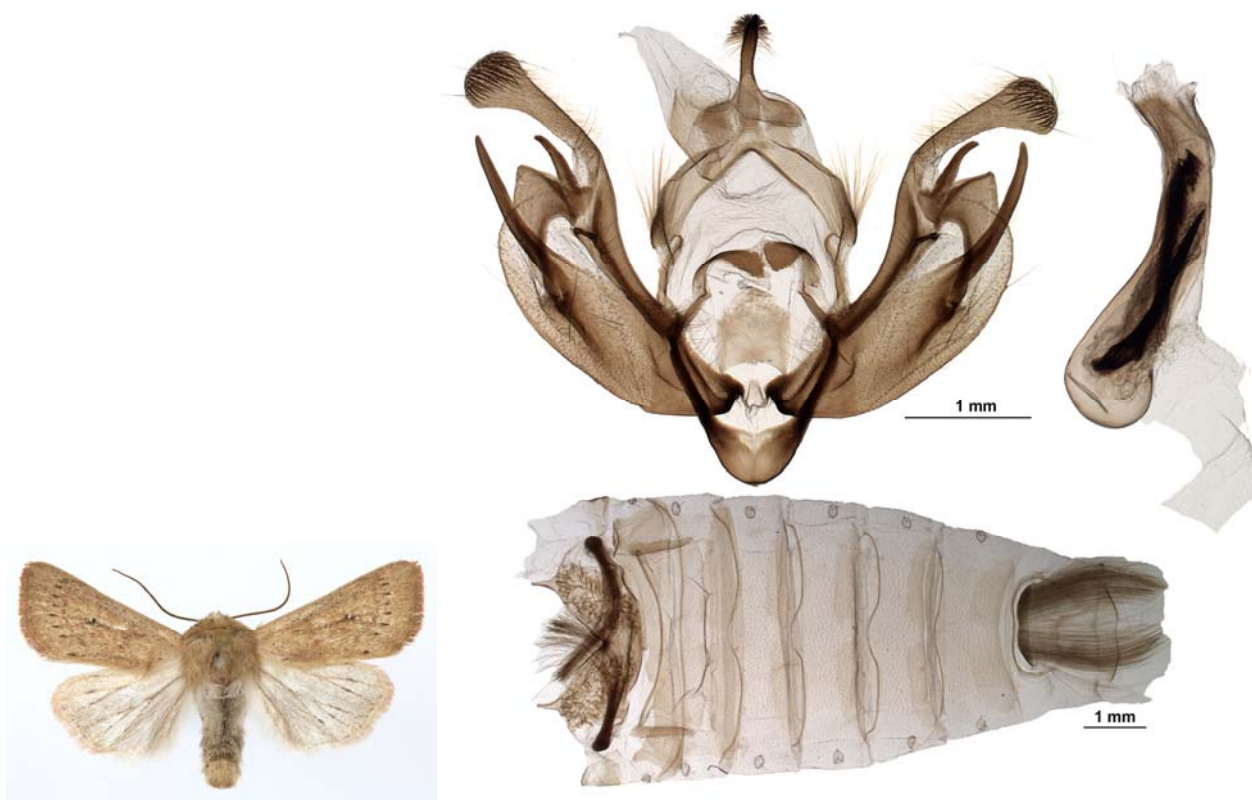


**Figs. 31-33** - *Glossotrophia sacraria*. Male genitalia and terminal abdominal segment (left); tympanal organs (before and after preparation (right) (GP2683). Nizip, Kızılcağent 2km E (27Db), 573m, 23 4 2017, M. Kemal (Cesa)

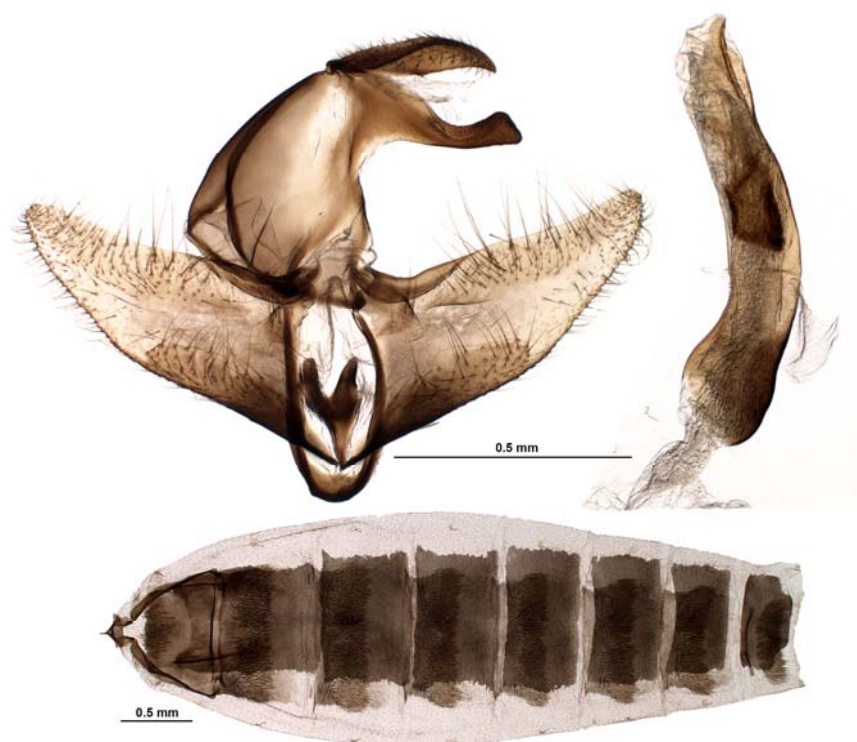




**Figs. 34, 35** - *Caradrina flavirena*, male genitalia (GP2681) (left). *Caradrina* sp., male genitalia (GP2678) (right). Both from Gaziantep Prov., Nizip, Kızılcağaz 2km E (27Db) 573m, 23 4 2017, M. Kemal (Cesa)



**Figs. 36-38** - *Mythimna alopecuri*. Upperside of male, the genitalia and abdominal skin with scent organs, GP2675. Nizip, Samandöken (27Dd), M. Kemal (Cesa)



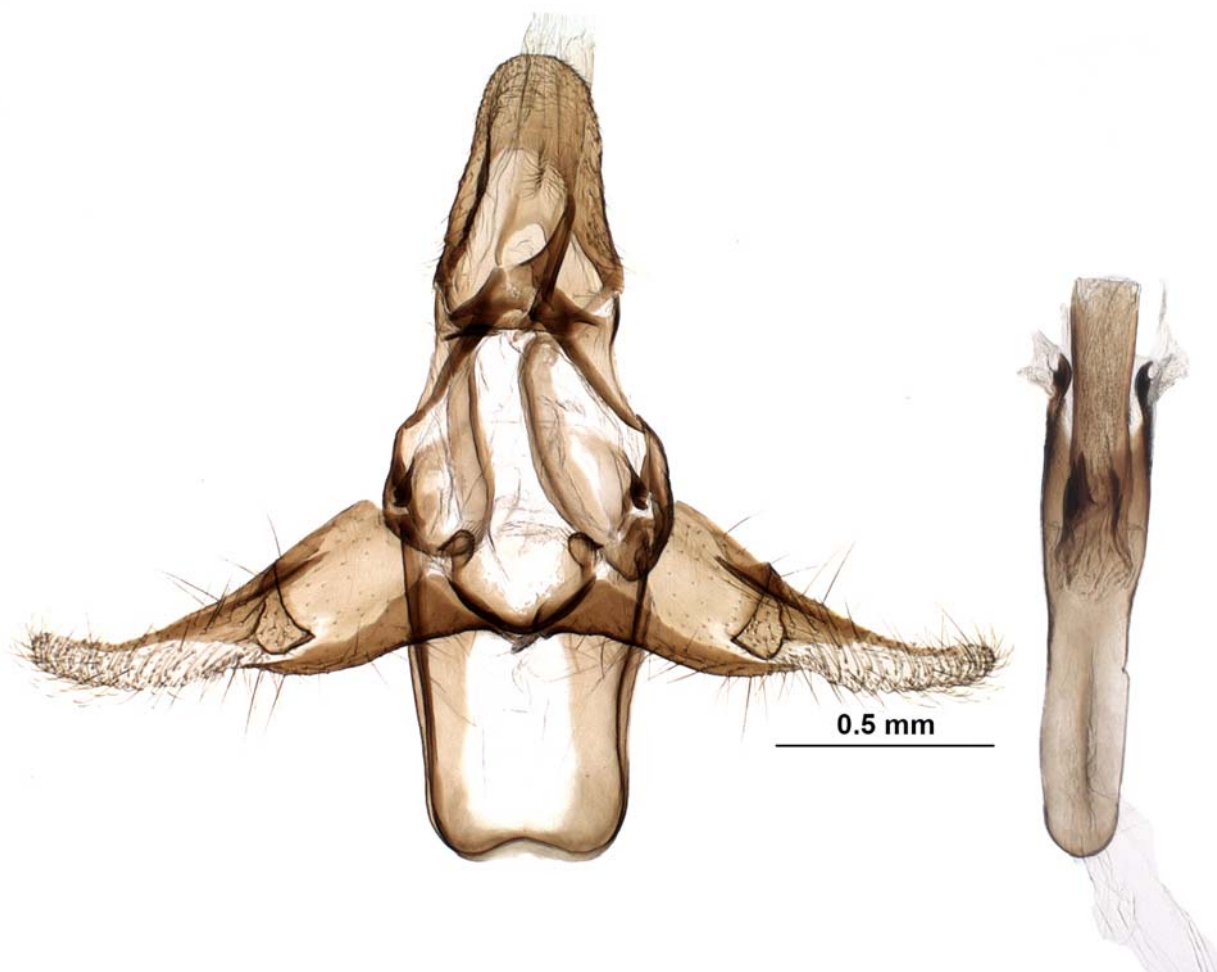
**Figs. 39, 40** – *Pleurota pyropella*. Male genitalia and abdominal skin, GP2661. Nizip, Turlu 1km SE 560m (27Da), 22 4 2017, M. Kemal (Cesa)



**Figs. 41, 42** – *Capperia* sp. Upperside of left wings of the female and genitalia, GP2659. Nizip, M. Kemal (Cesa)

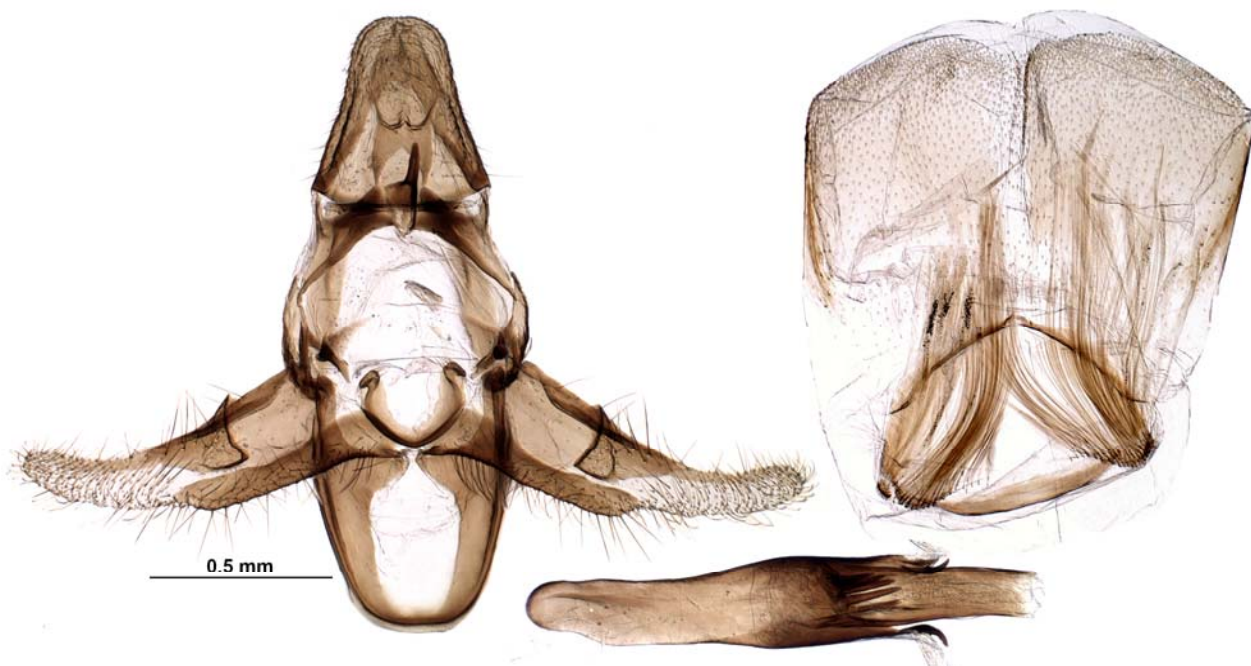


**Figs. 43, 44** - *Susia* sp.1 (left). Upperside of male. For its genitalia, see below (GP2664). *Susia* sp.2 (right). Upperside of male. For its genitalia, see below (GP2668), M.Kemal (Cesa)



**Fig. 45** - *Susia* sp.1 Male genitalia, GP2664. Nizip (27Db), 23 4 2017, M. Kemal (Cesa)





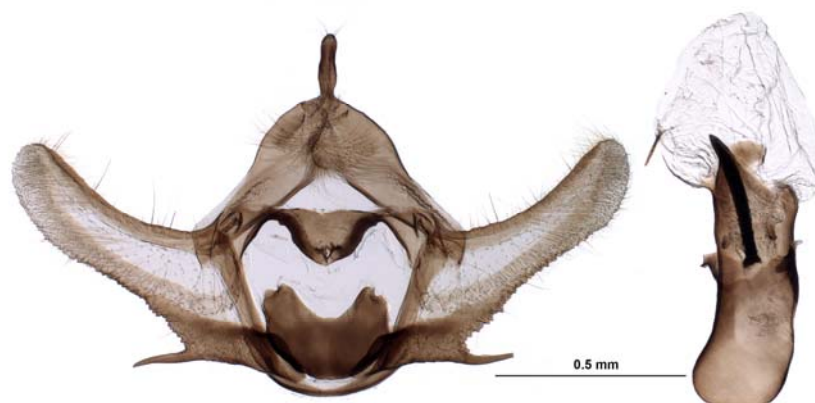
**Fig. 46** – *Susia* sp.2 Male genitalia and coremata, GP2668. Nizip (27Db), 23 4 2017, M. Kemal (Cesa)



**Figs. 47-49** – *Rhodobates pallipallus*. Upperside of male, genitalia and abdominal skin, GP2669. Nizip, Kızılcakent 2km E 575m (27Db), 23 4 2017, M. Kemal (Cesa)



**Fig. 50** – *Cochylimorpha diana*, male genitalia. GP2684♂. Nizip, Turlu 560m (27Da), M. Kemal (Cesa)



**Fig. 51** - *Phtheochroa dodrantaria*. Male genitalia, GP2673♂. Nizip, Kızılcakent 2km E 575m (27Db), 25 04 2017, M. Kemal (Cesa)

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